

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims:

1. (Original) A radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data transmitted through a propagation path to said receiving part radio communication apparatus from said transmitting part radio communication apparatus is variable,

wherein said transmitting part radio communication apparatus has known reference signal insertion interval determining means that can determine the insertion interval of said known reference signal, and

said transmitting part radio communication apparatus inserts said known reference signal into said data, in accordance with the insertion interval of said known reference signal determined by said known reference signal insertion interval determining means.

2. (Original) A radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data transmitted through a propagation path to said receiving part radio communication apparatus from said transmitting part radio communication apparatus is variable,

wherein said transmitting part radio communication apparatus has: known reference signal insertion interval determining means that can determine the insertion interval of said known reference signal; and reporting means for reporting a fact that the insertion interval of said known reference signal can be determined, together with a transmission request information of said data, to said receiving part radio communication apparatus prior to transmitting said data, and

    said transmitting part radio communication apparatus, when receiving a reception preparation completion information that is a response to said transmission request information from said receiving part radio communication apparatus, determines the insertion interval of said known reference signal and transmits said data, into which said known reference signal is inserted in accordance with the insertion interval of determined said known reference signal, to said receiving part radio communication apparatus.

3. (Original) The radio communication system according to claim 2, wherein said transmitting part radio communication apparatus refers to an information signal related to said reception preparation completion information received from said receiving part radio communication apparatus, and determines the insertion interval of said known reference signal which is optimal in said data transmission.

4. (Original) A radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part

radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data transmitted through a propagation path to said receiving part radio communication apparatus from said transmitting part radio communication apparatus is variable, wherein said transmitting part radio communication apparatus has: known reference signal insertion interval determining means that can determine the insertion interval of said known reference signal, and when said transmitting part radio communication apparatus transmits a data different from said data to said receiving part radio communication apparatus prior to transmitting said data and receives a reception Ack information indicating that the reception of said different data from said receiving part radio communication apparatus has been completed, said transmitting part radio communication apparatus determines the insertion interval of said known reference signal and transmits said data, into which said known reference signal is inserted in accordance with the insertion interval of determined said known reference signal, to said receiving part radio communication apparatus.

5. (Original) The radio communication system according to claim 4, wherein said transmitting part radio communication apparatus refers to an information signal related to said reception Ack information received from said receiving part radio communication apparatus, and determines the insertion interval of said known reference signal which

is optimal in transmitting said data to said receiving part radio communication apparatus.

6. (Original) A radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data transmitted through a propagation path to said receiving part radio communication apparatus from said transmitting part radio communication apparatus is variable, wherein said transmitting part radio communication apparatus has: known reference signal insertion interval determining means that can determine the insertion interval of said known reference signal, and said transmitting part radio communication apparatus receives an information signal transmitted to any radio communication apparatus from said receiving part radio communication apparatus, refers to said received information signal and determines the insertion interval of said known reference signal which is optimal in transmitting said data to said receiving part radio communication apparatus.

7. (Original) A radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data transmitted through a propagation path to said receiving part radio communication apparatus from said transmitting part radio communication apparatus is variable,

wherein said receiving part radio communication apparatus has: known reference signal insertion interval determining means that can determine the insertion interval of said known reference signal; and reporting means for reporting the insertion interval of said known reference signal determined by said known reference signal insertion interval determining means, to said transmitting part radio communication apparatus.

8. (Original) A radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data transmitted through a propagation path to said receiving part radio communication apparatus from said transmitting part radio communication apparatus is variable,

wherein said transmitting part radio communication apparatus has transmitting means for transmitting an information for requesting the insertion interval of said known reference signal together with a transmission request information of said data, to said receiving part radio communication apparatus prior to transmitting said data,

said receiving part radio communication apparatus has: known reference signal insertion interval determining means that can determine the insertion interval of said known reference signal; and reporting means for reporting the insertion interval of said known reference signal determined by said known reference signal insertion

interval determining means to said transmitting part radio communication apparatus, prior to transmitting said data, and said transmitting part radio communication apparatus transmits the information for requesting the insertion interval of said known reference signal together with the transmission request information of said data, to said receiving part radio communication apparatus prior to transmitting said data, and said receiving part radio communication apparatus determines the insertion interval of said known reference signal and reports the insertion interval of determined said known reference signal to said transmitting part radio communication apparatus, and said transmitting part radio communication apparatus inserts said known reference signal into said data, in accordance with the insertion interval of said known reference signal reported from said receiving part radio communication apparatus, and transmits to said receiving part radio communication apparatus.

9. (Original) The radio communication system according to claim 8, wherein said receiving part radio communication apparatus refers to the information signal related to the information for requesting the insertion interval of said known reference signal and the transmission request information of said data received from said transmitting part radio communication apparatus, and determines the insertion interval of said known reference signal which is optimal in said data transmission.

10. (Original) A radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data transmitted through a propagation path to said receiving part radio communication apparatus from said transmitting part radio communication apparatus is variable, wherein said receiving part radio communication apparatus has: known reference signal insertion interval determining means that can determine the insertion interval of said known reference signal, and when said transmitting part radio communication apparatus transmits a data different from said data to said receiving part radio communication apparatus prior to transmitting said data, said receiving part radio communication apparatus determines the insertion interval of said known reference signal and reports the insertion interval of determined said known reference signal to said transmitting part radio communication apparatus, and said transmitting part radio communication apparatus inserts said known reference signal into said data, in accordance with the insertion interval of said known reference signal reported from said receiving part radio communication apparatus and transmits to said receiving part radio communication apparatus.

11. (Original) The radio communication system according to claim 10, wherein said receiving part radio communication apparatus refers to an information signal related to said different data received from

said transmitting part radio communication apparatus, and determines the insertion interval of said known reference signal which is optimal in transmitting said data to said receiving part radio communication apparatus.

12. (Original) A radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data transmitted through a propagation path to said receiving part radio communication apparatus from said transmitting part radio communication apparatus is variable, wherein said receiving part radio communication apparatus has: known reference signal insertion interval determining means that can determine the insertion interval of said known reference signal, and said receiving part radio communication apparatus receives an information signal transmitted to any radio communication apparatus from said transmitting part radio communication apparatus, and refers to said received information signal and determines the insertion interval of said known reference signal, and reports the insertion interval of determined said known reference signal to said transmitting part radio communication apparatus, and said transmitting part radio communication apparatus inserts said known reference signal into said data, in accordance with the insertion interval of said known reference signal reported from said receiving part radio

communication apparatus, and transmits to said receiving part radio communication apparatus.

13. (Original) A radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data that is propagated in a communication between said transmitting part radio communication apparatus and said receiving part radio communication apparatus is variable,

wherein said transmitting part radio communication apparatus and said receiving part radio communication apparatus have known reference signal insertion interval acquiring means that can acquire the insertion interval of said known reference signal, and

the insertion interval of said known reference signal acquired by said transmitting part radio communication apparatus and the insertion interval of said known reference signal acquired by said receiving part radio communication apparatus are used to determine the insertion interval of said known reference signal inserted into said data.

14. (Original) A radio communication system that is provided with: a plurality of radio communication apparatuses; and a communication managing apparatus communicable with said plurality of radio communication apparatuses, in which an insertion interval of a known reference signal inserted into a data that is propagated in a

communication between each of said plurality of radio communication apparatuses and said communication managing apparatus is variable,

wherein said communication managing apparatus has: known reference signal insertion interval determining means that can determine the insertion interval of said known reference signal which is optimal in the communication with each of said plurality of radio communication apparatuses; and storing means that can store the insertion interval of said known reference signal which is optimal in a propagation path to each of said plurality of radio communication apparatuses.

15. (Original) A radio communication system that is provided with: a plurality of radio communication apparatuses; and a communication managing apparatus communicable with said plurality of radio communication apparatuses, in which an insertion interval of a known reference signal inserted into a data that is propagated in a communication between each of said plurality of radio communication apparatuses and said communication managing apparatus is variable,

wherein each of said plurality of radio communication apparatuses has: known reference signal insertion interval determining means that can determine the insertion interval of said known reference signal which is optimal in the communication with said communication managing apparatus; and storing means that can store the insertion interval of said known reference signal which is optimal in a propagation path to said communication managing apparatus.

16. (Original) The radio communication system according to claim 15, wherein each of said plurality of radio communication apparatuses refers to a report signal which is reported to any of said radio communication apparatuses by said communication managing apparatus; and determines the insertion interval of said known reference signal which becomes optimal in the propagation path to said communication managing apparatus.

17. (Currently Amended) The radio communication system, according to ~~one of the preceding claims 1 to 16~~, wherein said known reference signal insertion interval determining means refers to a temporal variation quantity of a propagation path response, and calculates the insertion interval of said known reference signal which becomes optimal in transmitting said data.

18. (Original) A radio communication method used in a radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data transmitted through a propagation path to said receiving part radio communication apparatus from said transmitting part radio communication apparatus is variable, including:

a step where said transmitting part radio communication apparatus determines the insertion interval of said known reference signal; and

a step where said transmitting part radio communication apparatus inserts said known reference signal into said data, in accordance with the insertion interval of determined said known reference signal, and transmits to said receiving part radio communication apparatus.

19. (Original) A radio communication method used in a radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data transmitted through a propagation path to said receiving part radio communication apparatus from said transmitting part radio communication apparatus is variable, including:

a step where said transmitting part radio communication apparatus reports a fact that the insertion interval of said known reference signal together with a transmission request information of said data can be determined, to said receiving part radio communication apparatus prior to transmitting said data;

a step where said receiving part radio communication apparatus receives said transmission request information and transmits a reception preparation completion information that is a response to said transmission request information;

a step where said transmitting part radio communication apparatus, when receiving said reception preparation completion information from said receiving part radio communication apparatus, determines the insertion interval of said known reference signal; and

a step where said transmitting part radio communication apparatus transmits said data, into which said known reference signal is inserted in accordance with the insertion interval of determined said known reference signal, to said receiving part radio communication apparatus.

20. (Original) A radio communication method according to claim 19, including a step where said transmitting part radio communication apparatus refers to an information signal related to said reception preparation completion information received from said receiving part radio communication apparatus, and determines the insertion interval of said known reference signal which is optimal in said data transmission.

21. (Original) A radio communication method used in a radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data transmitted through a propagation path to said receiving part radio communication apparatus from said transmitting part radio communication apparatus is variable, including:

a step where said transmitting part radio communication apparatus transmits a data different from said data, to said receiving part radio communication apparatus prior to transmitting said data;

a step where said receiving part radio communication apparatus receives said different data and transmits a reception Ack information indicating that the reception of said different data has been completed;

a step where when said transmitting part radio communication apparatus receives said reception Ack information from said receiving part radio communication apparatus, said transmitting part radio communication apparatus determines the insertion interval of said known reference signal; and

a step where said transmitting part radio communication apparatus transmits said data, into which said known reference signal is inserted in accordance with the insertion interval of determined said known reference signal, to said receiving part radio communication apparatus.

22. (Original) The radio communication method according to claim 21, including a step where said transmitting part radio communication apparatus refers to an information signal related to said reception Ack information received from said receiving part radio communication apparatus, and determines the insertion interval of said known reference signal which is optimal in transmitting said data to said receiving part radio communication apparatus.

23. (Original) A radio communication method used in a radio communication system that is provided with a transmitting part radio

communication apparatus and a receiving part radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data transmitted through a propagation path to said receiving part radio communication apparatus from said transmitting part radio communication apparatus is variable, including:

a step where said transmitting part radio communication apparatus receives an information signal transmitted to any radio communication apparatus from said receiving part radio communication apparatus; and

a step where said transmitting part radio communication apparatus refers to said received information signal and determines the insertion interval of said known reference signal which is optimal in transmitting said data to said receiving part radio communication apparatus.

24. (Original) A radio communication method used in a radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data transmitted through a propagation path to said receiving part radio communication apparatus from said transmitting part radio communication apparatus is variable, including

a step where said receiving part radio communication apparatus determines the insertion interval of said known reference signal; and

a step where said receiving part radio communication apparatus reports the insertion interval of determined said known reference

signal, to said transmitting part radio communication apparatus, prior to transmitting said data.

25. (Original) A radio communication method used in a radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data transmitted through a propagation path to said receiving part radio communication apparatus from said transmitting part radio communication apparatus is variable, including:

a step where said transmitting part radio communication apparatus transmits an information for requesting the insertion interval of said known reference signal together with a transmission request information of said data, to said receiving part radio communication apparatus prior to transmitting said data;

a step where said receiving part radio communication apparatus receives the information for requesting the insertion interval of said known reference signal and determines the insertion interval of said known reference signal;

a step where said receiving part radio communication apparatus reports the insertion interval of determined said known reference signal to said transmitting part radio communication apparatus; and

a step where said transmitting part radio communication apparatus inserts said known reference signal into said data, in accordance with the insertion interval of said known reference signal reported from

said receiving part radio communication apparatus, and transmits to said receiving part radio communication apparatus.

26. (Original) The radio communication method according to claim 25, including a step where said receiving part radio communication apparatus refers to the information signal related to the information for requesting the insertion interval of said known reference signal and the transmission request information of said data received from said transmitting part radio communication apparatus, and determines the insertion interval of said known reference signal which is optimal in said data transmission.

27. (Original) A radio communication method used in a radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data transmitted through a propagation path to said receiving part radio communication apparatus from said transmitting part radio communication apparatus is variable, including:

a step where said transmitting part radio communication apparatus transmits a data different from said data, to said receiving part radio communication apparatus prior to transmitting said data;

a step where said receiving part radio communication apparatus receives said different data and determines the insertion interval of said known reference signal;

a step where said receiving part radio communication apparatus reports the insertion interval of said known reference signal together with a reception Ack information indicating that the reception of said different data has been complete, to said transmitting part radio communication apparatus; and

a step where said transmitting part radio communication apparatus transmits said data, into which said known reference signal is inserted in accordance with the insertion interval of said known reference signal reported from said receiving part radio communication apparatus, to said receiving part radio communication apparatus.

28. (Original) The radio communication method according to claim 27, including a step where said receiving part radio communication apparatus refers to an information signal related to said different data received from said transmitting part radio communication apparatus, and determines the insertion interval of said known reference signal which is optimal in transmitting said data to said receiving part radio communication apparatus.

29. (Original) A radio communication method used in a radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data transmitted through a propagation path to said

receiving part radio communication apparatus from said transmitting part radio communication apparatus is variable, including:

a step where said receiving part radio communication apparatus receives an information signal transmitted to any radio communication apparatus from said transmitting part radio communication apparatus;

a step where said receiving part radio communication apparatus refers to said received information signal and determines the insertion interval of said known reference signal;

a step where said receiving part radio communication apparatus reports the insertion interval of determined said known reference signal to said transmitting part radio communication apparatus; and

a step where said transmitting part radio communication apparatus inserts said known reference signal into said data, in accordance with the insertion interval of said known reference signal reported from said receiving part radio communication apparatus, and transmits to said receiving part radio communication apparatus.

30. (Original) A radio communication method used in a radio communication system that is provided with a transmitting part radio communication apparatus and a receiving part radio communication apparatus, in which an insertion interval of a known reference signal inserted into a data that is propagated in a communication between said transmitting part radio communication apparatus and said receiving part radio communication apparatus is variable, including:

a step where said transmitting part radio communication apparatus and said receiving part radio communication apparatus acquire the insertion interval of said known reference signal;

a step where each of said transmitting part radio communication apparatus and said receiving part radio communication apparatus acquires the insertion interval of said known reference signal; and

a step where said transmitting part radio communication apparatus or said receiving part radio communication apparatus uses the insertion interval of said known reference signal acquired by each of said transmitting part radio communication apparatus and said receiving part radio communication apparatus and determines the insertion interval of said known reference signal inserted into said data.

31. (Original) A radio communication method used in a radio communication system that is provided with: a plurality of radio communication apparatuses; and a communication managing apparatus communicable with said plurality of radio communication apparatuses, in which an insertion interval of a known reference signal inserted into a data that is propagated in a communication between each of said plurality of radio communication apparatuses and said communication managing apparatus is variable, including:

a step where said communication managing apparatus determines the insertion interval of said known reference signal which is optimal in

the communication with each of said plurality of radio communication apparatuses; and

a step of storing the insertion interval of said known reference signal which is optimal in a propagation path to each of said plurality of radio communication apparatuses.

32. (Original) A radio communication method used in a radio communication system that is provided with: a plurality of radio communication apparatuses; and a communication managing apparatus communicable with said plurality of radio communication apparatuses, in which an insertion interval of a known reference signal inserted into a data that is propagated in a communication between each of said plurality of radio communication apparatuses and said communication managing apparatus is variable, including:

a step where each of said plurality of radio communication apparatuses determines the insertion interval of said known reference signal which is optimal in the communication with said communication managing apparatus; and

a step of storing the insertion interval of said known reference signal which is optimal in a propagation path to said communication managing apparatus.

33. (Original) The radio communication method according to claim 32, including a step where each of said plurality of radio communication apparatuses refers to a report signal which is reported

to any of said radio communication apparatuses by said communication managing apparatus, and determines the insertion interval of said known reference signal which becomes optimal in the propagation path to said communication managing apparatus.

34. (Currently Amended) The radio communication method, according to ~~one of the preceding claims 18 to 33~~, including a step of referring to a temporal variation quantity of a propagation path response, in the insertion interval of said known reference signal, and calculating the insertion interval of said known reference signal which becomes optimal in transmitting said data.

35. (New) The radio communication system, according to claim 2, wherein said known reference signal insertion interval determining means refers to a temporal variation quantity of a propagation path response, and calculates the insertion interval of said known reference signal which becomes optimal in transmitting said data.

36. (New) The radio communication system, according to claim 3, wherein said known reference signal insertion interval determining means refers to a temporal variation quantity of a propagation path response, and calculates the insertion interval of said known reference signal which becomes optimal in transmitting said data.

37. (New) The radio communication system, according to claim 4, wherein said known reference signal insertion interval determining means refers to a temporal variation quantity of a propagation path response, and calculates the insertion interval of said known reference signal which becomes optimal in transmitting said data.

38. (New) The radio communication system, according to claim 5, wherein said known reference signal insertion interval determining means refers to a temporal variation quantity of a propagation path response, and calculates the insertion interval of said known reference signal which becomes optimal in transmitting said data.

39. (New) The radio communication system, according to claim 6, wherein said known reference signal insertion interval determining means refers to a temporal variation quantity of a propagation path response, and calculates the insertion interval of said known reference signal which becomes optimal in transmitting said data.

40. (New) The radio communication system, according to claim 7, wherein said known reference signal insertion interval determining means refers to a temporal variation quantity of a propagation path response, and calculates the insertion interval of said known reference signal which becomes optimal in transmitting said data.

41. (New) The radio communication system, according to claim 8, wherein said known reference signal insertion interval determining means refers to a temporal variation quantity of a propagation path response, and calculates the insertion interval of said known reference signal which becomes optimal in transmitting said data.

42. (New) The radio communication system, according to claim 9, wherein said known reference signal insertion interval determining means refers to a temporal variation quantity of a propagation path response, and calculates the insertion interval of said known reference signal which becomes optimal in transmitting said data.

43. (New) The radio communication system, according to claim 10, wherein said known reference signal insertion interval determining means refers to a temporal variation quantity of a propagation path response, and calculates the insertion interval of said known reference signal which becomes optimal in transmitting said data.

44. (New) The radio communication system, according to claim 11, wherein said known reference signal insertion interval determining means refers to a temporal variation quantity of a propagation path response, and calculates the insertion interval of said known reference signal which becomes optimal in transmitting said data.

45. (New) The radio communication system, according to claim 12, wherein said known reference signal insertion interval determining means refers to a temporal variation quantity of a propagation path response, and calculates the insertion interval of said known reference signal which becomes optimal in transmitting said data.

46. (New) The radio communication system, according to claim 13, wherein said known reference signal insertion interval determining means refers to a temporal variation quantity of a propagation path response, and calculates the insertion interval of said known reference signal which becomes optimal in transmitting said data.

47. (New) The radio communication system, according to claim 14, wherein said known reference signal insertion interval determining means refers to a temporal variation quantity of a propagation path response, and calculates the insertion interval of said known reference signal which becomes optimal in transmitting said data.

48. (New) The radio communication system, according to claim 15, wherein said known reference signal insertion interval determining means refers to a temporal variation quantity of a propagation path response, and calculates the insertion interval of said known reference signal which becomes optimal in transmitting said data.

49. (New) The radio communication system, according to claim 16, wherein said known reference signal insertion interval determining means refers to a temporal variation quantity of a propagation path response, and calculates the insertion interval of said known reference signal which becomes optimal in transmitting said data.

50. (New) The radio communication method, according to claim 19, including a step of referring to a temporal variation quantity of a propagation path response, in the insertion interval of said known reference signal, and calculating the insertion interval of said known reference signal which becomes optimal in transmitting said data.

51. (New) The radio communication method, according to claim 20, including a step of referring to a temporal variation quantity of a propagation path response, in the insertion interval of said known reference signal, and calculating the insertion interval of said known reference signal which becomes optimal in transmitting said data.

52. (New) The radio communication method, according to claim 21, including a step of referring to a temporal variation quantity of a propagation path response, in the insertion interval of said known reference signal, and calculating the insertion interval of said known reference signal which becomes optimal in transmitting said data.

53. (New) The radio communication method, according to claim 22, including a step of referring to a temporal variation quantity of a propagation path response, in the insertion interval of said known reference signal, and calculating the insertion interval of said known reference signal which becomes optimal in transmitting said data.

54. (New) The radio communication method, according to claim 23, including a step of referring to a temporal variation quantity of a propagation path response, in the insertion interval of said known reference signal, and calculating the insertion interval of said known reference signal which becomes optimal in transmitting said data.

55. (New) The radio communication method, according to claim 24, including a step of referring to a temporal variation quantity of a propagation path response, in the insertion interval of said known reference signal, and calculating the insertion interval of said known reference signal which becomes optimal in transmitting said data.

56. (New) The radio communication method, according to claim 25, including a step of referring to a temporal variation quantity of a propagation path response, in the insertion interval of said known reference signal, and calculating the insertion interval of said known reference signal which becomes optimal in transmitting said data.

57. (New) The radio communication method, according to claim 26, including a step of referring to a temporal variation quantity of a propagation path response, in the insertion interval of said known reference signal, and calculating the insertion interval of said known reference signal which becomes optimal in transmitting said data.

58. (New) The radio communication method, according to claim 27, including a step of referring to a temporal variation quantity of a propagation path response, in the insertion interval of said known reference signal, and calculating the insertion interval of said known reference signal which becomes optimal in transmitting said data.

59. (New) The radio communication method, according to claim 28, including a step of referring to a temporal variation quantity of a propagation path response, in the insertion interval of said known reference signal, and calculating the insertion interval of said known reference signal which becomes optimal in transmitting said data.

60. (New) The radio communication method, according to claim 29, including a step of referring to a temporal variation quantity of a propagation path response, in the insertion interval of said known reference signal, and calculating the insertion interval of said known reference signal which becomes optimal in transmitting said data.

61. (New) The radio communication method, according to claim 30, including a step of referring to a temporal variation quantity of a propagation path response, in the insertion interval of said known reference signal, and calculating the insertion interval of said known reference signal which becomes optimal in transmitting said data.

62. (New) The radio communication method, according to claim 31, including a step of referring to a temporal variation quantity of a propagation path response, in the insertion interval of said known reference signal, and calculating the insertion interval of said known reference signal which becomes optimal in transmitting said data.

63. (New) The radio communication method, according to claim 32, including a step of referring to a temporal variation quantity of a propagation path response, in the insertion interval of said known reference signal, and calculating the insertion interval of said known reference signal which becomes optimal in transmitting said data.

64. (New) The radio communication method, according to claim 33, including a step of referring to a temporal variation quantity of a propagation path response, in the insertion interval of said known reference signal, and calculating the insertion interval of said known reference signal which becomes optimal in transmitting said data.